

**NJSP Information Technology Bureau
MQ Series CJIS 2000/Remote System Interface**

**MQ Interface & NJSP/NJDOT CRASH Testing Overview
7/19/2005**

Initial Stand-Alone Testing – Virtual Mainframe

- 1. Isolated at the Remote Site**
- 2. Install Full MQ Series product on Remote System**
- 3. Define Remote Queue Mgr. & MQ Objects**

NJSP Information Technology Bureau (ITB) “Set Up” files will be provided to define the associated MQ objects for the Remote System and Virtual Mainframe. MQ Series also has a Set Up Wizard, which can be utilized to define the Remote System and Virtual Mainframe MQ Objects.

In using either the “Set Up” Files or MQ Set Up Wizard, the associated MQ Objects are to be defined once the corresponding Queue Managers have been created.

- 4. Define Virtual Queue Mgr. & MQ Objects**

See Define Remote Queue Mgr. ... above.

- 5. Install NJSP provided Virtual Mainframe**

- 6. Complete Basic Communications & Message Testing**

Virtual Mainframe testing will entail sending only “single “ segment messages to the VM Queue Manager. This testing is intended to support the development and testing of the MQ associated communication functionality. Simple validation will be performed against the Message Header and the existence of an XML Client Message area.

Note: The Virtual Mainframe is a relatively generic testing tool developed by the NJSP. References to NCIC, Bundle or BNDLE Random and Full messages are not part of the NJSP/NJDOT Crash Interface and are be ignored.

- 6. Generate Virtual Scorecard**

The Virtual Mainframe software will automatically post to the Virtual Scorecard during Remote/Virtual testing. The Scorecard will be able to be referenced during this testing period to view testing completed, testing remaining, and the status for each designated test.

Once testing has been completed successfully; the scorecard must be forwarded to the NJSP Information Technology Bureau (ITB) for certification.

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Integrated Testing – CJIS Server (Development)

1. Virtual Scorecard Certification – WinNT and Win2000 Operating Platforms

Initiation of the Integrated Testing Phase will not be permitted until the NJSP ITB has certified the Agency's Virtual Scorecard.

Note: If Vendor operating Platform is other than WinNT or Win2000 proceed to Step 3 to initiate Development System testing phase.

2. Coordinate “On-Site” Testing with NJSP Primary Contact

Initial Integrated Testing will be performed at the NJSP ITB location unless otherwise directed by the NJSP CJIS Control Unit and Information Technology Bureau.

Testing will involve the connection to the NJSP Development System from a secured NJSP location. The Vendor will be required to provide their hardware for testing and to have their “Front-End” software and Full MQ Series product properly installed, defined, and operational.

Note: In the case where the Vendor's operating Platform is a mainframe server or it is physically impossible to conduct “On-Site” testing the NJSP ITB Contact person is to be advised so that the appropriate accommodations can be set in motion.

3. Remote System Object Definitions – Constant

The Remote System's MQ Object definitions will remain constant between the Objects originally set up for the Virtual Mainframe testing and the NJSP Development System testing.

Note: No changes should be necessary other than the Remote System's reference to the NJSP MQ Interface IP Address, which is needed to establish the connection between the two (2) systems.

NJSP ITB Set Up files will provided to define the associated MQ objects. MQ Series also has a Set Up Wizard, which can be utilized to define the Remote System MQ Objects.

4. CJIS Server Object references for the Remote System

Remote System references relating the Agency's “Reply-To” Queue must be defined on the NJSP Development system.

This will be coordinated with the NJSP ITB.

5. CJIS Server Access Authorization Entries

The Agency's ORI (Queue Manager Name) and IP Address must also be referenced in the NJSP Development system's System and Application Security Databases.

This will be coordinated with the NJSP ITB.

6. Coordinate “Remote” Testing with NJSP Primary Contact

Following successful completion of the NJSP “on-site” testing, the Vendor or Agency Administrator will be required to schedule CJIS Production implementation

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Implementation – CJIS Server (Production)

1. Coordinate with NJSP Primary Contact

Successful completion of the On-Site Development testing phase will certify the Remote Agency for implementation to the NJSP CJIS Production environment.

Coordination and scheduling of CJIS implementation will be conducted between the Vendor, Agency Administrator, the NJSP CJIS Control Unit and Information Technology Bureau, and the NJDOT/OIT primary contacts.

2. Remote System Object Definitions – Changed – CJIS Queue Manager name references and NJSP CJIS 2000 Production IP Address references.

- **CJIS 2000 Queue Manager Reference Changes** -The Remote System's MQ Object definitions, will be required to be renamed, for any Object referencing the CJIS Queue Manager. NJSP System standards require that the corresponding CJIS Queue Managers on the Development and Production systems be named differently.

Consequently any MQ Object defined to the Remote System that references the name of the CJIS Queue Manager will need its name changed for resolution with the CJIS Production Queue Manager.

CJIS 2000 Production Queue Manager Name - QRPA

This standard will affect the Remote Systems Object definitions for its Send and Receive Channels and corresponding Remote Transmit Queue definition for the CJIS Server. Additionally the Remote application that "PUTS" a Request message to the CJIS Server "Request" Queue (LPPXGNTF.MQCLIENT.REQUEST) must also be modified to reflect the MQ Message Descriptor (MQMD) reference for the Remote Queue Manager on the "Put" command.

- **Remote Sender Channel Change** – The Remote System's Sender Channel (to CJIS 2000 Server) must have the IP Address changed to the NJSP Production System Reference.

CJIS 2000 Production MQ Interface IP Address – 199.20.72.182 (MVSA2)

3. CJIS Server Object references for the Remote System

Remote System references relating the Agency's "Reply-To" Queue must be defined on the NJSP Production system.

This will be coordinated with the NJSP ITB.

4. CJIS Server Access Authorization Entries

The Agency's ORI (Queue Manager Name) and IP Address must be referenced in the NJSP Production system's System and Application Security Databases.

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This will be coordinated with the NJSP ITB.

5. Post Implementation Quality Assurance Testing

Production implementation related entries and requirements are to be acknowledged by the NJSP CJIS Control Unit and Information Technology Bureau.

Adequate testing is to be performed by the Remote System Administrator and any problems reported to the NJSP ITB Primary Contact.